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DETAILED ACTION

This is a reply to the Applicants' Request for Reconsideration submitted on 11/21/2005. In virtue of this request, claims 6-7 and 10 have been canceled; and thus, claims 1-5, 8-9, and 11-13 are now presented in the instant application.

Allowable Subject Matter

1. Claims 1-5, 8-9, and 11-13 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- An electronic pulse generation device comprising means for applying an alternating
 pulse between said first electrode and said second electrode to reverse or change
 polarization of said emitter element, in combination with the remaining claimed
 limitations as called for in independent claim 1 (claims 2-3, 8, and 11-12 are allowed
 since they are dependent on claim 1);
- An electric pulse generating device comprising means for applying an alternating pulse between said first electrode and said second electrode to reverse or change polarization of said emitter element wherein said means for applying alternating pulse applies a first voltage between the first electrode and the second electrode for causing the first electrode to have a potential higher than a potential of the second electrode in a first period to perform the polarization of the emitter element in one direction, wherein said means for applying alternating pulse applies a second voltage between the first electrode and the second electrode for causing the first electrode to have a

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potential lower than a potential of the second electrode in a second period to perform the polarization reversal or polarization change of the emitter element for emitting electrons, in combination with the remaining claimed limitations as called for in independent claim 4;

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- An electronic pulse generating device comprising means for applying an alternating
 pulse between said first electrode and said second electrode to reverse or change
 polarization of said emitter element, in combination with the remaining claimed
 limitations as called for in independent claim 5;
- An electronic pulse generating device comprising means for applying an alternating pulse between said first electrode and said second electrode to reverse or change polarization of said emitter element, wherein polarization reversal or polarization change occurs in an electric field E applied to the emitter element represented by Vak/h, where h is a thickness of the emitter element between the first electrode and the second electrode, and Vak is a voltage between said first and second electrodes, in combination with the remaining claimed limitations as called for in independent claim 9; and
- An electronic pulse generating device comprising means for applying an alternating pulse between said first electrode and said second electrode to reverse or change polarization of said emitter element, wherein said first electrode, said emitter element, and a vacuum atmosphere define a triple point, in combination with the remaining claimed limitations as called for in independent claim 13.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Remarks

- 3. Receipt is acknowledged of the substitute declaration filed on 07/20/2005.
- 4. The IDSs Applicants submitted on August 22, 2005 and June 10, 2005 were considered by the Examiner. The consideration of these IDSs was indicated in form PTOL-326, paper No. 09062005, mailed on 09/08/2005.
- 5. The Examiner acknowledges with appreciation that the statement "Claims 4-7, 9, and 13 was stated as being objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims" made in the Office Action mailed 09/09/2005 was processed in error.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

02/08/2006

THUY V. TRAN
PRIMARY EXAMINER